Hae-Chan Park Direct: 703.712.5365

#### **McGUIREWOODS**





April 2, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RE:

Application No. Unassigned

Filed: April 2, 2004

LIQUID CRYSTAL DISPLAY, THIN FILM TRANSISTOR ARRAY PANEL

THEREFOR, AND MANUFACTURING METHOD THEREOF

Inventor: Dong-Gyu KIM Our Ref: 6192.0368.US

Sir:

}

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. A Transmittal Letter;
- 2. A Utility Patent Application Transmittal Form;
- 3. A Specification containing 34 pages and 9 sheets of drawings (Figs. 1, 2, 3, 4A, 4B, 5A, 5B, 6, 7, 8, 9A, 9B, 10A, 10B, 11A, and 11B);
- 4. An executed Declaration;
- 5. An executed Statement Under 37 C.F.R. §3.73(b), Power of Attorney by Assignee;
- 6. A Form PTO-1595 Recordation Cover Sheet and a copy of the executed Assignment to Samsung Electronics Co., Ltd., a recordation of which is hereby respectfully requested;
- Claim of Priority to: Korean Patent Application No. 2003-0021311 filed April 4, 2003;
- 8. Our check no. 164895 in the amount of \$824.00 to cover the filing fee and our check no. 164896 in the amount of \$40.00 to cover the assignment fee; and
- 9. Two acknowledgement postcards.

It is respectfully requested that the attached copy of the postcard be stamped with the filing date of these documents and returned to our courier.

U.S. Patent & Trademark Office April 2, 2004 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 23-1951 referencing docket number 6192.0368.US.

Respectfully submitted,

Scott J. Hawranek Reg. No. 52,411

Hae-Chan Park Reg. No. 50,114

HCP/tmk Enclosures 1328

### UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

Docket No. 61920368US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Total Pages in this Submission

#### TO THE COMMISSIONER FOR PATENTS

Mail Stop Patent Application P.O. Box 1450 Alexandria, VA 22313-1450

Alexandria, VA 22313-1450
Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an
invention entitled:
LIQUID CRYSTAL DISPLAY, THIN FILM TRANSISTOR ARRAY PANEL THEREFOR, AND MANUFACTURING METHOD THEREOF
and invented by:
Dong-Gyu KIM
If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:
Which is a:
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:
Which is a:
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:
Enclosed are:
Application Elements
1. 🗵 Filing fee as calculated and transmitted as described below
2 M Openification begins 24
2. Specification having pages and including the following:
a. 🗵 Descriptive Title of the Invention
b.  Cross References to Related Applications (if applicable)
c.   Statement Regarding Federally-sponsored Research/Development (if applicable)
d.   Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix
e. 🗵 Background of the Invention
f. 🗵 Brief Summary of the Invention
g. 🗵 Brief Description of the Drawings (if filed)
h. 🗵 Detailed Description
i. 🗵 Claim(s) as Classified Below
j. 🖾 Abstract of the Disclosure

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 61920368US

Total Pages in this Submission

		Application Elements (Continued)
3.	X	Drawing(s) (when necessary as prescribed by 35 USC 113)
	a.	
	b.	☐ Informal Number of Sheets
4.	X	Oath or Declaration
	a.	☑ Newly executed (original or copy) ☐ Unexecuted
	b.	☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
	C.	☐ With Power of Attorney ☑ Without Power of Attorney
	d.	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5.		Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6.		CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)
7.		Application Data Sheet (See 37 CFR 1.76)
8.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
	a.	☐ Computer Readable Form (CRF)
	b.	☐ Specification Sequence Listing on:
		i. CD-ROM or CD-R (2 copies); or
		ii. 🔲 Paper
	C.	☐ Statement(s) Verifying Identical Paper and Computer Readable Copy
		Accompanying Application Parts
9.	$\boxtimes$	Assignment Papers (cover sheet & document(s))
10.	$\boxtimes$	37 CFR 3.73(B) Statement (when there is an assignee)
11.		English Translation Document (if applicable)
12.		Information Disclosure Statement/PTO-1449
13.		Preliminary Amendment
14.	$\boxtimes$	Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.		Certificate of Mailing
		First Class

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 61920368US

Total Pages in this Submission

	Accompanying Application Parts (Continued)
7.	Additional Enclosures (please identify below):
	Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)
3.	Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.
	Warning
	An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

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CC:

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

Docket No. 61920368US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Total Pages in this Submission

#### **Fee Calculation and Transmittal**

#### **CLAIMS AS FILED** #Allowed For #Filed #Extra Rate Fee \$54.00 **Total Claims** - 20 = 3 23 \$18.00 3 \$0.00 Indep. Claims - 3 = 0 \$86.00 х Multiple Dependent Claims (check if applicable) \$0.00 **BASIC FEE** \$770.00 \$0.00 OTHER FEE (specify purpose) **TOTAL FILING FEE** \$824.00 A check in the amount of \$824.00 to cover the filing fee is enclosed. ☑ The Director is hereby authorized to charge and credit Deposit Account No. 23-1951 as described below. ☐ Charge the amount of as filing fee. ☑ Credit any overpayment. □ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17. ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b). Scott Hawranek, Reg. No. 52,411 Dated: April 2, 2004 Hae-Chan Park, Reg. No. 50,114 McGuireWoods LLP 1750 Tysons Boulevard, Suite 1800 McLean, VA 22102

Telephone No. 703-712-5365

Facsimile No. 703-712-5280